CONSTRUCTION

Wire : 24 AWG bare copper conductor ∅ 0,5 mm (nom.)

Insulation : HDPE ∅ 0,9 mm (inf.)

Cabling element : a pair of two insulated conductors twisted together

Pair colour marking:

	Pair	a-wire	b-wire
Subunit №. 1	1	White	Blue
	2	White	Orange
	3	White	Green
	4	White	Brown
Subunit №. 2	5	White	Grey
	6	Red	Blue
	7	Red	Orange
	8	Red	Green
Subunit №. 3	9	Red	Brown
	10	Red	Grey
	11	Black	Blue
	12	Black	Orange
Subunit №. 4	13	Black	Green
	14	Black	Brown
	15	Black	Grey
	16	Yellow	Blue

	Pair	a-wire	b-wire
Subunit №. 5	17	Yellow	Orange
	18	Yellow	Green
	19	Yellow	Brown
Subunit №. 6	20	Yellow	Grey
	21	Violet	Blue
	22	Violet	Orange
Subunit №. 7	23	Violet	Green
	24	Violet	Brown
	25	Violet	Grey

Unit 12x2 ∅ 7,5 mm (inf.)

Subunits № 1 ÷ № 3 (4x2 + 4x2 + 4x2) twisted and wrapped by marking tape

Unit 13x2 ∅ 7,5 mm (inf.)

Subunits № 4 ÷ № 7 (4x2 + 3x2 + 3x2 + 3x2) twisted and wrapped by marking tape

Unit 25x2 ∅ 8,5 mm (inf.)

Subunits № 1 ÷ № 7 ((4x2) + (4x2 + 4x2 + 4x2 + 3x2 + 3x2 + 3x2)) twisted and wrapped by marking tape

Core

Pair number:	Construction:		*Marking tapes:*
25	2 + 8 + 15	concentric	-
50	12 + 13 + 12 + 13	unit	Blue/Blue/Orange/Orange
100	4x **25**	unit	Blue/Orange/Green/Brown
150	1x **25** + 5x **25**	unit	Blue Orange/Green/Brown/Grey/White

		CDT KDP	**25 ÷ 150 PAIR #24 AWG UTP CAT 3 LSOH**	
		Ing. Miroslav Tesař Head of control and research	*Replaces TA No. 39.3/02, 95.3/02, 37.0/03*	
		Ing. František Cempírek Head of technology	**TECHNICAL AGREEMENT No. 043.0/04**	page 1/2
*	10.05.2004			
	Date			

Wrapping : 1x manufacturer´s identification thread
1x plastic foil

Sheath : FRNC – Grey RAL 7032; rip-cord longitudinaly applied under the sheath

Identific. marking : colour black

Wording : according to the customer´s request – mentioned in contract of purchase

Cable	*Inf. diameter of core (mm)*	*Min. thickness of sheath (mm)*	*Max. diameter of cable (mm)*	*Length (m)*	*Drum V (cm)*	*Coil (mm)*
25x2	8,5	0,75	11,5	1 000/305	80	450x190x390
50x2	14,0	0,80	17,5	1 000	100	–
100x2	18,9	0,75	23,5	1 000	120	–
150x2	23,2	1,0	28,0	1 000	140	–

MEASURING AND TESTING

Electrical characteristics:

(Measured at 20 °C by methods in accordance with particular parts of norm DIN VDE 0472)

Conductor DCR ≤ 9,38 Ω/100 m

DCR unbalance > 5%

Mutual capacitance (800 Hz) max 66 pF/m

Capacitance unbalance »e« (800 Hz) ≤ 330 pF/100 m

Structural return loss (**SRL**) (1-10 MHz) min. 12 dB/100m
(10-16 MHz) min. 12-10log(f/10) dB/100m

Attenuation $\leq 2{,}320\ \sqrt{f} + 0{,}238\ f$ dB/100 m

Near end crosstalk (NEXT) $\geq 45 - 15 \log_{10} (f / 0{,}772)$ dB/100 m

Power sum near end crosstalk (PS-NEXT) $\geq 43 - 15 \log_{10} (f / 0{,}772)$ dB/100 m

Frequency (MHz)	**Attenuation** (dB/100 m)	**NEXT** (dB/100 m)	**PS-NEXT** (dB/100 m)	**SRL** (dB)
	max.	min.	min.	min.
0,772	2,2	45	43	12
1,0	2,6	44	41	12
4,0	5,6	34	32	12
8,0	8,5	29	27	12
10,0	9,7	28	26	12
16,0	13,1	25	23	10